

606176 2"

Work Order ID 154285***154285***

Page 1

Wednesday, December 07, 2016 1:50:59 PM

Item ID: 644.4124

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Washer, Pivot

Start Date: 12/9/2016 Start Qty: 7.00

7

Cust Item ID:

Required Date: 12/23/2016 Req'd Qty: 7.00

7

Customer:

Reference:

Approvals:

Process Plan:

DAS
21
9-89

Date: DEC 07 2016

Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

Draw Nbr

Revision Nbr

644.4100

F2

0.00

110

110

DOOSAN

0.15

Doosan

Memo

Doosan Lathe

1-TURN AS PER DWG

DWG REV: F2

2- deburr and break all sharp edges

0.00

120

QC2- Inspect parts off machine FAI/FAIB

120

0.10

QC

Memo

Quality Control

7

P16-12-15

7

P16-12-15

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Description Work Order Deviation				Disposition				Completed By																	
								Lead hand / Supervisor Approval Verification																	
										QC / QA Coordinator Approval															
Root Cause				FAULT CATEGORY																					
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Design ☐		Operator ☐		Bending ☐		Set-up ☐		Folio/Program ☐		Outside Dimensions ☐															
Doc/Data ☐		Offset/Setup ☐		Centre Not Concentric ☐		BOM/Route ☐		Grain ☐		Over/Under tolerance ☐															
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Material ☐		Use for Testing ☐		Cuffs ☐		Contamination ☐		Out of Sequence ☐		Part Moved ☐															
Internal Transport ☐		Poor Information ☐		Crushing ☐		Countersink ☐		Off-set ☐		Drawing ☐															
Tribal Knowledge ☐		Rushing ☐		Heat Treat ☐		Cut Too Short ☐		Mislabeled ☐		Finish ☐															
LOA ☐		Product Improvement ☐		Wave/Twist in Tube ☐		Instructions Incomplete/Unclear ☐		Fit/Function ☐		Misread ☐															
Substation ☐		Process Improvement ☐		Marks/Chatter ☐		Drill Holes ☐		Misaligned/off center ☐		Turning Sequence ☐															
Past Expiry Date ☐		Manufacturing Process ☐		OTHER : _____																					
Misidentified ☐		Past Due ☐																							

Work Order ID 154285

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154285

Page 2

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Required Date: 12/23/2016 Req'd Qty: 7.00 ***7***

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Reference:

Approvals: Process Plan:

Date:

Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

130

QC8- Inspect parts - second check

0.00

130

QC

Memo

0.02

Quality Control

DAS
14
9-89

16/12/16

140

Outsource process-Anodize per QSI017 4.1.10.1

0.00

140

Outsource4

Memo

70.00

Outsource process - Anodize

Issue P/O to ATG : 348861- Black Anodize as per Dwg
Note 4

Certification of Conformity is required

7

JAN 09 2017

DAS
13
9-89

150

Receive & Inspect for Damage & Mat'l Certs

0.00

150

Packaging

Memo

0.02

Packaging

7x SP17-0117

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
2-AGI 2-7 2-8-0				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Work Order ID 154285

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154285

Page 3

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N900040100

Setup Start

NS1

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Stop

NS2

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Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

155

QC5- Inspect part completeness to step on W/O

0.00

155

QC

Memo

0.02

Quality Control

DAS
38
9-88
JAN 17 2017

160

0.00

160

SprayPaint

Memo

0.00

Spray Painting

PRIME AS PER DWG AND NOTE 4
BATCH: 136429PAINT AS PER DWG AND NOTE 4
BATCH: 136434

17-01-31

165

QC14- Inspect Spray Paint

0.00

165

QC

Memo

0.00

Quality Control

DAS
38
9-88

DEC 01 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coor. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval 	
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	

Root Cause				FAULT CATEGORY			
Environment ☐	Design ☐	Doc/Data ☐	Equip/Tooling ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐
Handling/Pre ☐	Material ☐	Internal Transport ☐	Tribal Knowledge ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐
LOA ☐	Substation ☐	Past Expiry Date ☐	Misidentified ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐
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				Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐
				Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐
				Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐
				OTHER : ☐			

Work Order ID 154285

Wednesday, December 07, 2016 1:50:59 PM

154285

Page 4

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N900040100Setup Start ***NS1***

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7

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Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

180

Identify as per dwg & Stock Location

ckr31

0.00

180

Packaging

Memo

0.01

Packaging

IDENTIFY AS PER APICAL MPP-120 BY STAMPING P# AND REV

FEB 01 2017

DAS
6
9-89

190

QC21- Final Inspection - Work Order Release

0.00

190

QC

Memo

0.12

Quality Control

1/10/02/02 AD

FEB 02 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="width:15%;">Skid-tube ☐</td> <td style="width:15%;">Cross tube ☐</td> <td style="width:15%;">Water Jet ☐</td> <td style="width:15%;">Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Root Cause		FAULT CATEGORY																							
Environment ☐	☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐																			
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Past Expiry Date ☐	☐	Manufacturing Process ☐	OTHER :																						
Misidentified ☐	☐	Past Due ☐																							

Picklist Print

Wednesday, December 07, 2016 1:51:04 PM

Page 1

Work Order ID: 154285

154285

Parent Item: 644.4124

644 4124

Parent Item Name: Washer, Pivot

Start Date: 12/9/2016

Required Date: 12/23/2016

Start Qty: 7.00

Required Qty: 7.00

Comments: IPP REV:A NEW ISSUE 16-12-07 JLM VERIFIED BY:DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M6061T6R2.000		Purchased	No				f	10.9640		0.302105			

M6061T6R2 000

6061T6 ROUND BAR 2.00

Location

Loc Qty

Loc Code

MAT012

10.964

m127682

10.964

.333 16-12-15

24

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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OTHER : ☐																																																															

APICAL

INDUSTRIES, INC.

ENGINEERING CHANGE NOTICE NO. 04489

SHEET 1 OF 1

DWG NO. 644,4100

REV: F

PREPARED BY:

J. BECKER

DATE: 04/08/14

EFFECT ON DWG
☐ INC. ☒ UNINC.

DWG TITLE: PIVOT STEP ASSY

APPROVED BY:

ENGR

MFG

QC

EFF:

NEXT ORDER

TRANSACTION
A-ADD
R-REVISE

CODES (C):
C-CREATE
D-DELETE

REASON: UPDATE NOTE 4, FINISH SPECIFICATION.

NOTES:

1. IDENTIFY ALL PARTS IN ACCORDANCE WITH MPP-120
2. MATERIAL: 2024-T3 ALUMINUM
3. MATERIAL: 6061-T6 ALUMINUM
4. FINISH IAW MPP-172 SECTION 2.1, SECTION 3.1, SECTION 4.1, SECTION 5.2.
5. MATERIAL: MDS-FILLED NYLON 6/6 SHEET, CUT OD CIRCLE USING 2" GASKET PUNCH, CUT ID HOLE USING 1/4" GASKET PUNCH
6. MATERIAL: MDS-FILLED NYLON 6/6 SHEET, CUT OD CIRCLE USING 2" GASKET PUNCH, CUT ID HOLE USING 5/16" GASKET PUNCH
7. DIMENSION VALUE HAS FINISH COATING OF 6-10 MIL (.006-.010) TAKEN INTO CONSIDERATION
8. ADD ADDITIONAL WASHER UNDERNEATH CASTLE NUTS IF NECESSARY.
9. FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III CLASS 2, COLOR BLACK.

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 154285 MJS
10-12-07

SHEET 1, NOTES IS:

DOCUMENTS EFFECTED:

☐ MDL ☐ INSTALL INSTRU ☐ ICA ☐ BOM

CHANGE CATEGORY
☐ MAJOR ☒ MINOR

DER REVIEW REQUIRED
☐ YES ☒ NO

APICAL
INDUSTRIES, INC.

ENGINEERING CHANGE NOTICE NO.

04286

SHEET 1 OF 1

DWG NO. 644.4100

REV: F

PREPARED BY J. SOTO

DATE: 12/04/2013

EFFECT ON DWG
☐ INC. ☒ UNINC.

DWG TITLE: PIVOT STEP ASSY

APPROVED BY:

ENGR *[Signature]*

MFG

[Signature]

QC

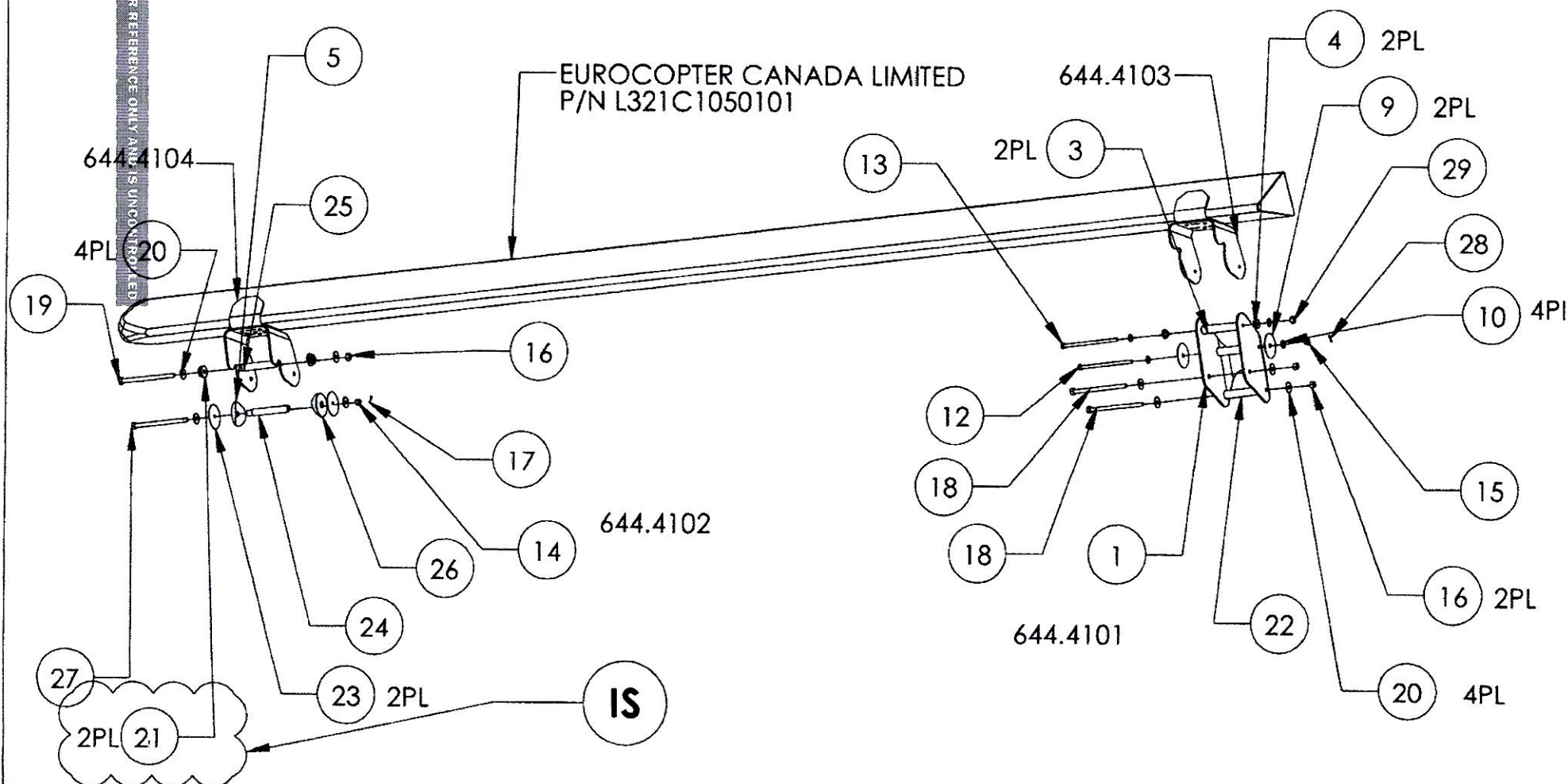
EFF. NEXT ORDER

TRANSACTION CODES (TC):
A-ADD
R-REVISE
C-CREATE
D-DELETE

REASON: REVISED F/N CALL OUT FROM 22 TO 21

ECR: 13-151

SHEET 1, ZONE D1 IS:



DOCUMENTS EFFECTED:

☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☐ BOM

CHANGE CATEGORY

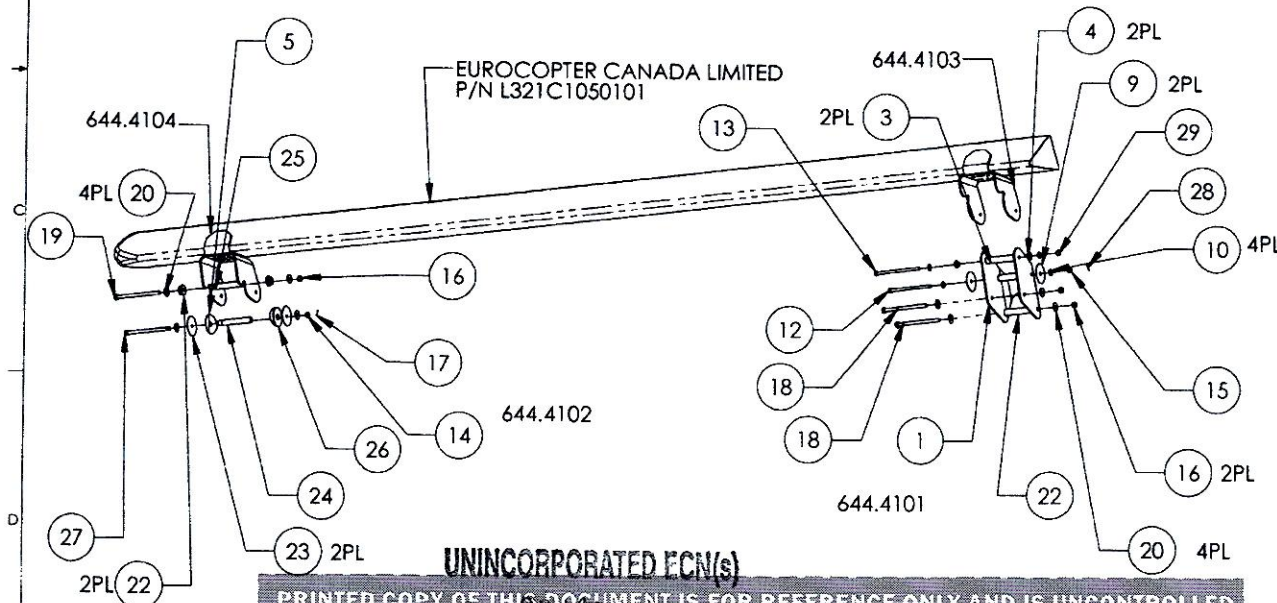
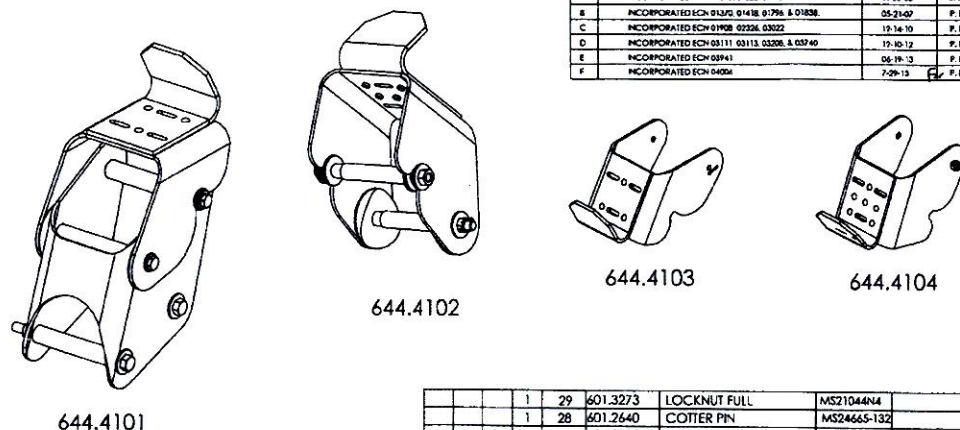
☐ MAJOR ☒ MINOR

DER REVIEW REQUIRED

☐ YES ☒ NO

NOTES:

1. IDENTIFY ALL PARTS IN ACCORDANCE WITH MPP-120
2. MATERIAL: 2024-T3 ALUMINUM
3. MATERIAL: 6061-T6 ALUMINUM
4. FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III CLASS 2, COLOR BLACK;
PRETREAT PR-148 ADHESION PROMOTER,
PRIME WITH DESOTO 515X349 IAW BMS 10-79 TYPE III CLASS A GRADE A,
POLYURETHANE PAINT CARDINAL 6409-RD03-S WITH CATALYST 340HP.
5. MATERIAL: MDS-FILLED NYLON 6/6 SHEET, CUT OD CIRCLE USING 2" GASKET PUNCH,
CUT ID HOLE USING 1/4" GASKET PUNCH
6. MATERIAL: MDS-FILLED NYLON 6/6 SHEET, CUT OD CIRCLE USING 2" GASKET PUNCH,
CUT ID HOLE USING 5/16" GASKET PUNCH
7. DIMENSION VALUE HAS FINISH COATING OF 6-10 MIL (.006-.010) TAKEN INTO
CONSIDERATION
8. ADD ADDITIONAL WASHER UNDERNEATH CASTLE NUTS IF NECESSARY.
9. FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III CLASS 2, COLOR BLACK.



UNINCORPORATED ECN(s)

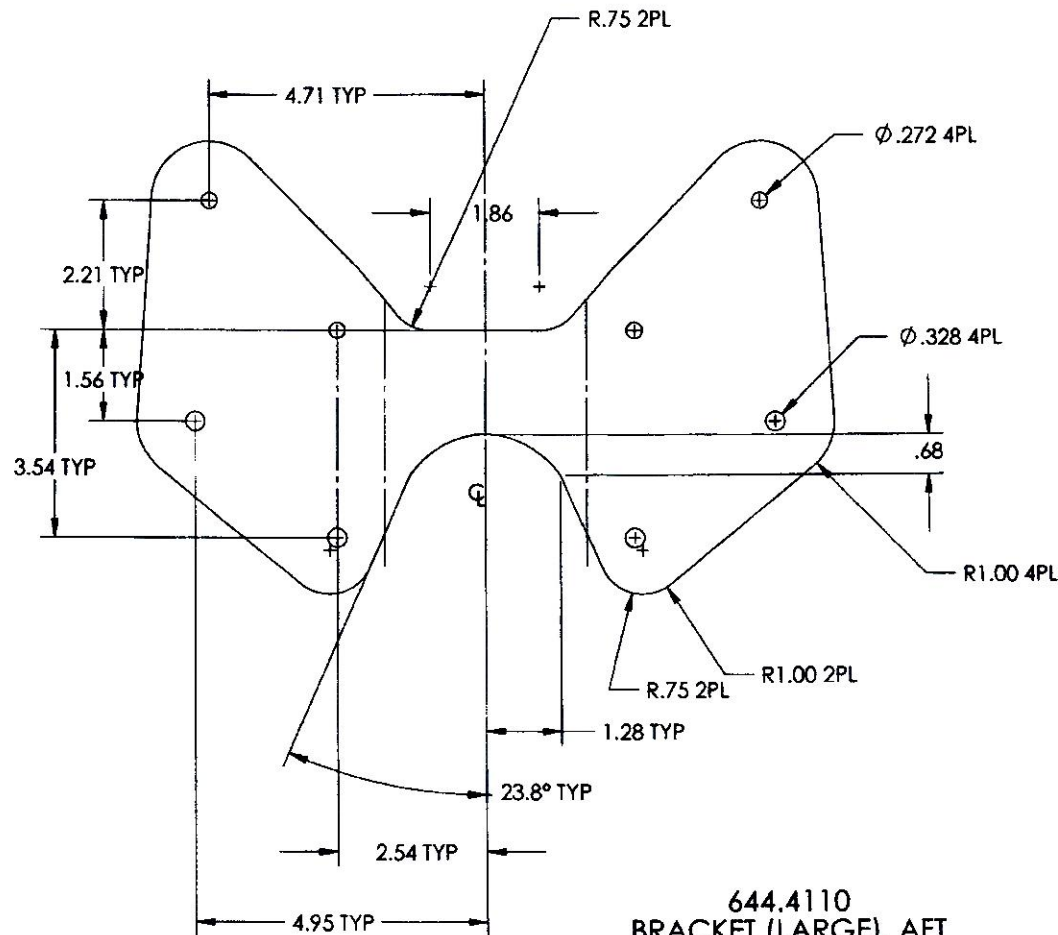
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INCORPORATED ECH 01310 01322 01332 & 01357	11-29-65	S. JOSEPH
B	INCORPORATED ECH 01315 01418 01759 & 01826	05-21-67	P. BRAVO
C	INCORPORATED ECH 01908 02236 03022	19-10-70	P. BRAVO
D	INCORPORATED ECH 03111 03113 03208 & 03740	17-10-72	P. BRAVO
E	INCORPORATED ECH 03941	06-18-73	P. BRAVO
F	INCORPORATED ECH 04004	7-29-73	P. BRAVO

			1	29	601.3273	LOCKNUT FULL	MS21044N4	
			1	28	601.2640	COTTER PIN	MS24665-132	
			1	27	201.2328	BOLT, HEX	ANS-45	
			1	26	644.4124	WASHER, PIVOT	△△	
			1	25	644.4123	FWD CROSS-TUBE BUSHING	△△	
			1	24	644.4122	FWD CROSS-TUBE BUSHING	△△	
			2	23	644.4121	WASHER, NYLON	△△	
			1	22	644.4120	SPACER, CROSS-TUBE	△△	
			2	21	644.4119	SPACER, FWD STOP	△△	
			4	20	601.2110	WASHER, FLAT THICK	MSA114PC 0836R	
			1	19	601.2250	BOLT, HEX	ANS-50	
			2	18	601.2249	BOLT, HEX	ANS-43A	
			1	17	601.3315	COTTER PIN	MS24665-210	
			1	2	16	601.3272	LOCKNUT FULL	MS21044N5
			1	15	601.1435	NUT, HEX CASTLE FULL	AN310-4	
			1	14	601.3270	NUT, HEX CASTLE FULL	AN310-5	
			1	13	601.3407	BOLT, HEX	AN4-47A	
			1	12	601.2434	BOLT, HEX	AN4-45	
6	3			11	601.2326	RIVET, COUNTERSUNK	MS20426ADS-B	
			4	10	601.0863	WASHER, THICK	MSA114PC 0463R	
			2	9	644.4118	WASHER, NYLON	△△	
			1	8	644.4117	BRACKET, FWD PIVOT	△△	
			1	7	644.4116	BRACKET (SMALL), FWD	△△	
			1	6	644.4115	BRACKET (SMALL), AFT	△△	
			1	5	644.4114	WASHER, PIVOT	△△	
			2	4	644.4113	SPACER, STOP	△△	
			2	3	644.4112	SPACER	△△	
			1	2	644.4111	BRACKET, AFT PIVOT	△△	
			1	1	644.4110	BRACKET [LARGE], AFT	△△	
					644.4104	FWD BRACKET ASSY		
					644.4103	AFT BRACKET ASSY		
					644.4102	PIVOT STEP ASSY		
					644.4101	PIVOT STEP ASSY		
4104410341034101	FIND #				PART #	DESCRIPTION	MAT#	
							SPEC	

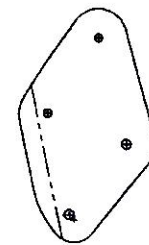
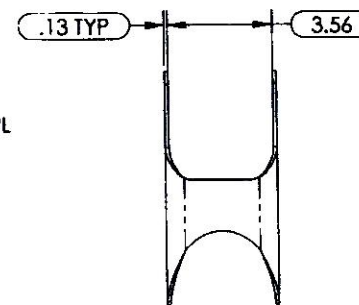
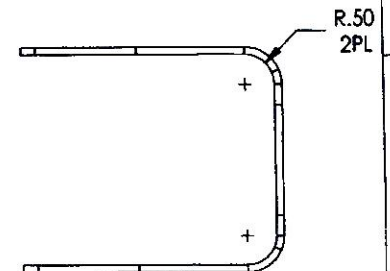
QTY	ORIGINAL DATE 05-01-05	DATE 05-01-05	PARTS LIST	
NEXT ASSY [S]	CHECKED J. JOSEPH		APICAL INDUSTRIES	
644.1800	DRAWN BY J. JOSEPH		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
	DRAWING APPROVAL J. JOSEPH 05-01-05		PIVOT STEP ASSY	
CONTRACT NO. UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ± .010 3 PLACE DECIMALS ± .003 ANGLES ± .5°			NET. CASE CODE B 07WZ6	ENG. NO. 644.4100
			SCALE: NONE	REV. F SHEET 1 OF 1

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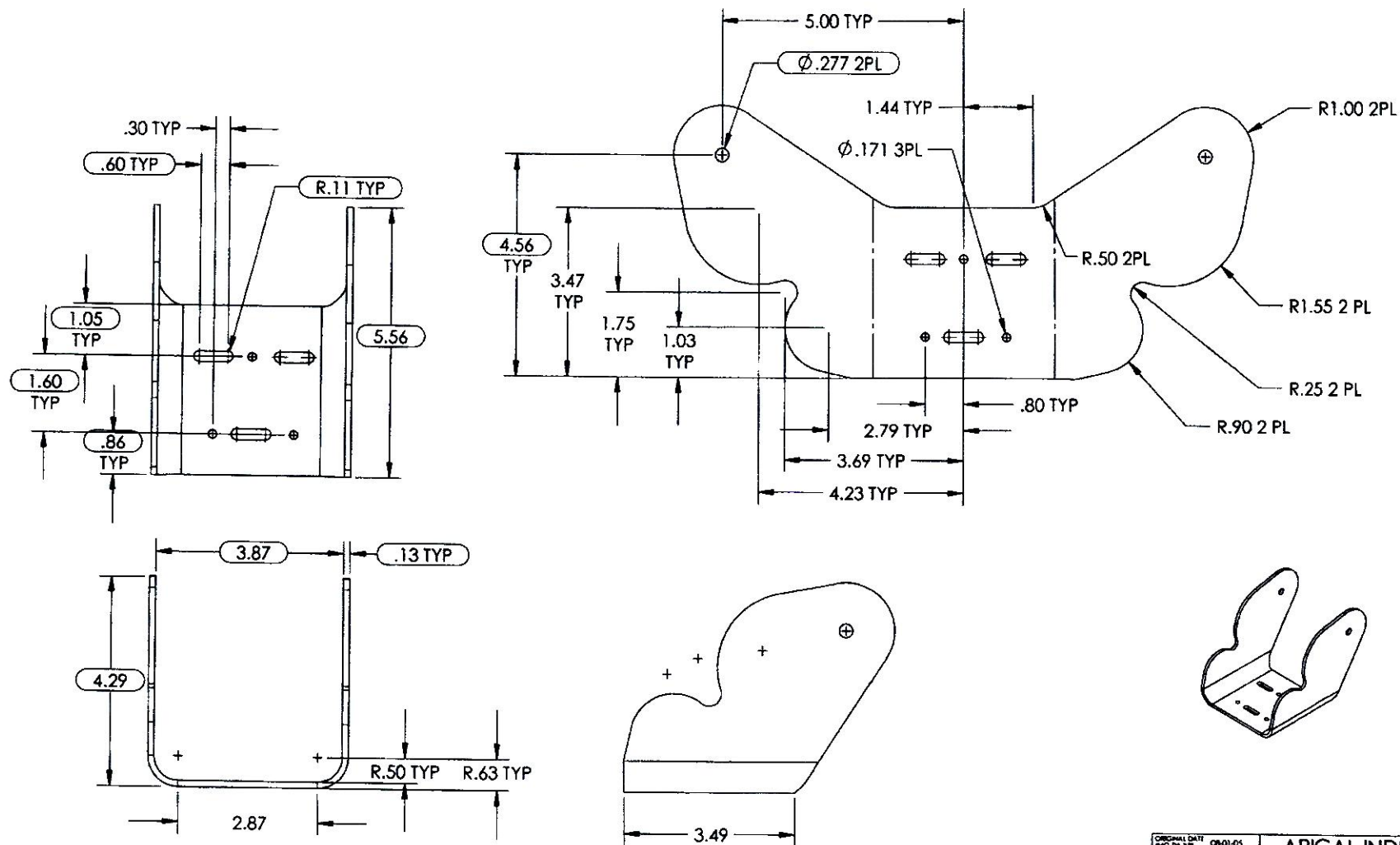
644.4110
BRACKET (LARGE), AFT

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ORIGINAL DATE 08-01-05	APICAL INDUSTRIES
DRAWN BY J. JOSEPH	2608 TEMPLE HEIGHTS DR.
CHECKED BY J. JOSEPH	OCEANSIDE, CA. 92056-3512 (760)724-5300
DATE 08-29-05	PIVOT STEP ASSY
CONTRACT NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 1 PLACE DECIMALS ± .05 2 PLACE DECIMALS ± .010 ANGLES ± .5°	REV. CODE B D7MZ6
	DATE NO. 644.4100
	SCALE NONE
	SHEET 2 OF 16

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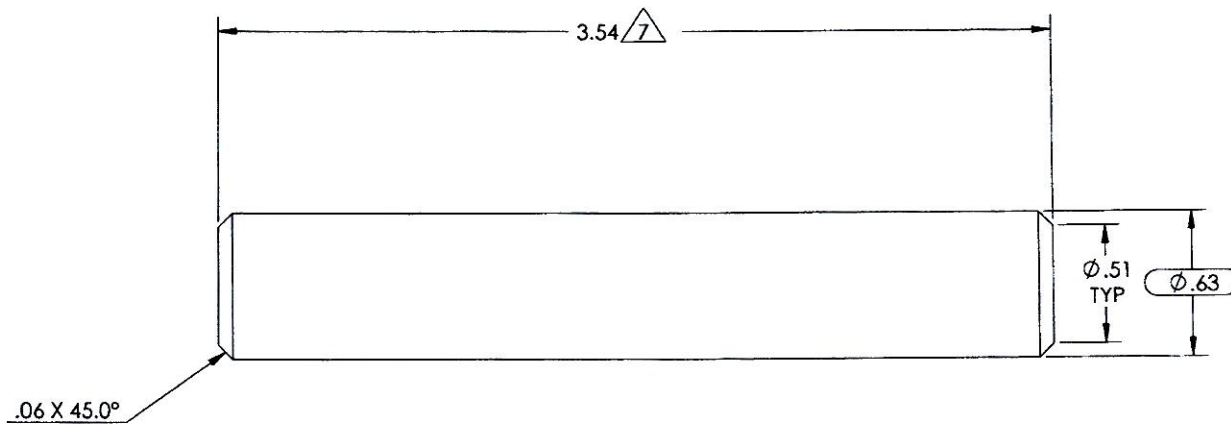


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644.4111
BRACKET, AFT PIVOT

ORIGINAL DATE: 08-01-05		APICAL INDUSTRIES	
DRAWN BY: J. JOHNSON		2608 TEMPLE HEIGHTS DR.	
CHECKED BY: J. JOHNSON		OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL: J. JOHNSON 08-29-05		PIVOT STEP ASSY	
COORDINATOR: J. JOHNSON		SCALE: NONE	
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE: 3 PLACES DECIMALS $\pm .03$ ANGLES $\pm .3^\circ$		SHEET 3 OF 16	

1 2 3 4 5 6 7 8
A
B
C
D
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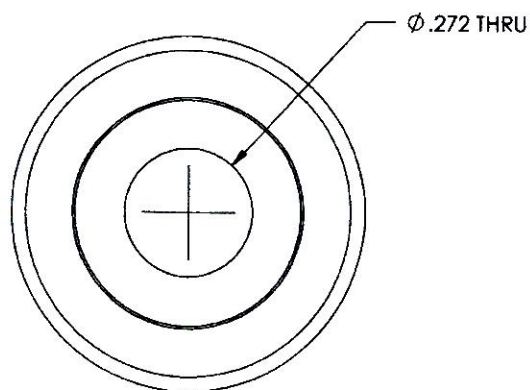
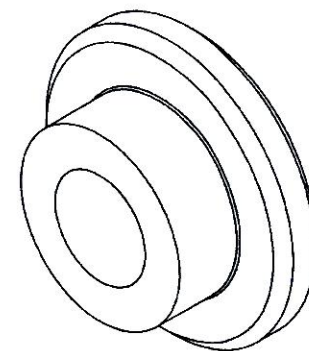
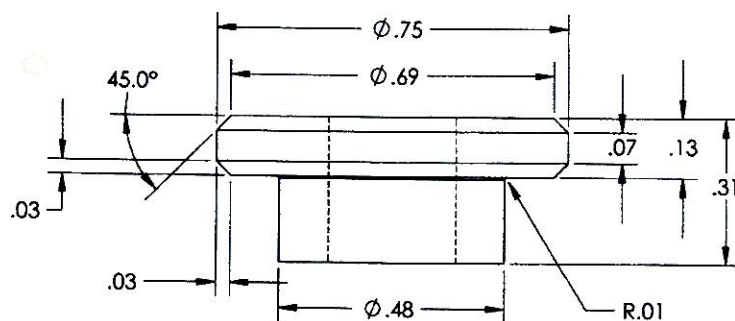


644.4112
SPACER

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ORIGINAL DATE 08-01-05		APICAL INDUSTRIES	
DRAWN BY S.JOSEPH		2608 TEMPLE HEIGHTS DR.	
CHECKED S.JOSEPH		OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL S.JOSEPH 08-29-05		PIVOT STEP ASSY	
CONTRACT NO.		REV.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 1 PLACE DECIMALS ±.03 2 PLACE DECIMALS ±.010 ANGLES ±.5°		SHEET 07M26	DWG NO. 644.4100
SCALE NONE		SHEET 4 OF 16	

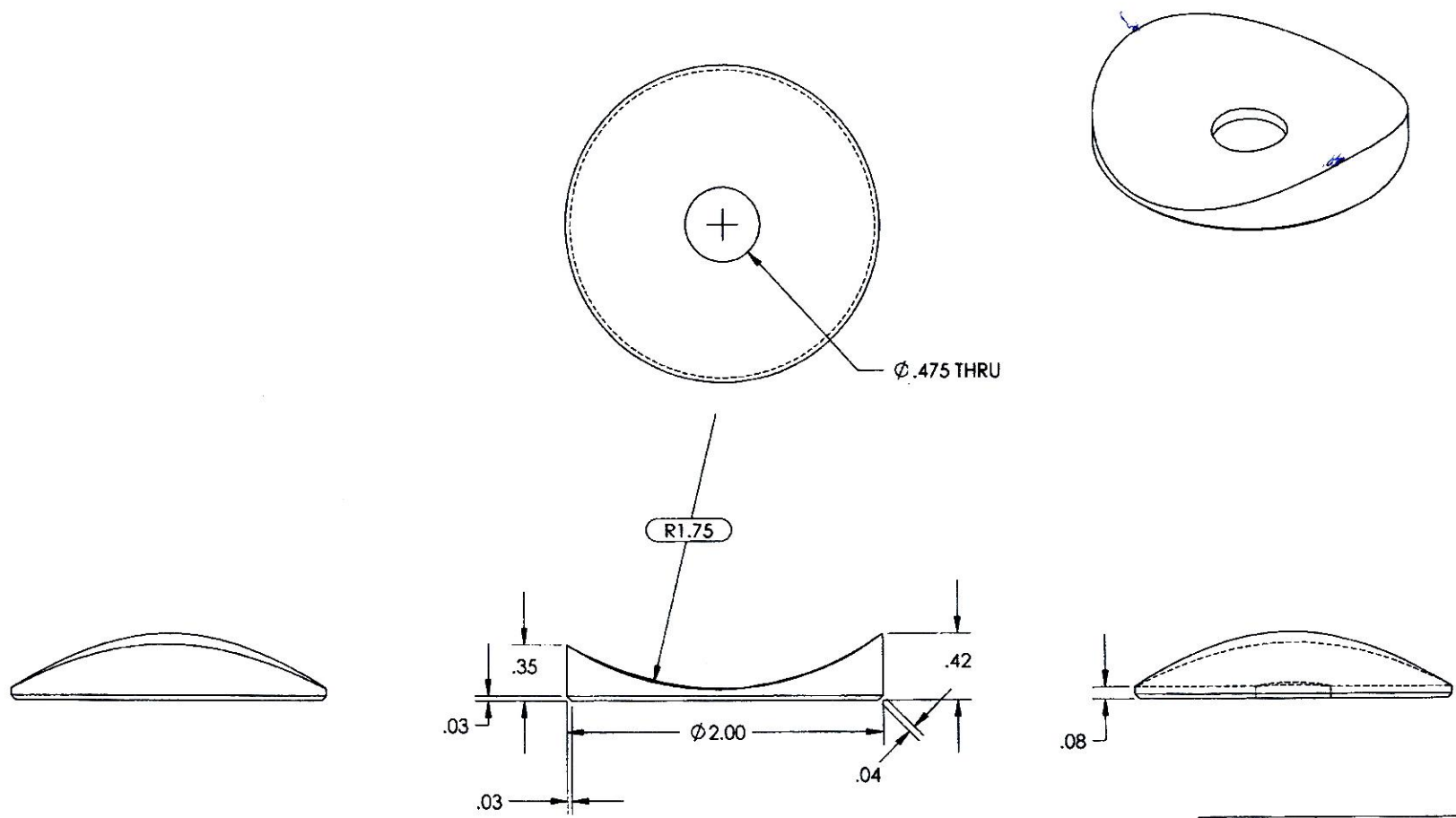
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644.4100
SPACER, STOP

ORIGINAL DATE 08-01-05	APICAL INDUSTRIES		
DRAWN BY J. PARROTT	2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300		
CHECKED S. JOSEPH	PIVOT STEP ASSY		
DRAWING APPROVAL S. JOSEPH 08-01-05			
CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 3 PLACE DECIMALS ±.015 ANGLES ±.5°	SER. B	CAGE CODE 07M26	DWG. NO. 644.4100
	SCALE NONE	REV. F	SHEET 5 OF 16

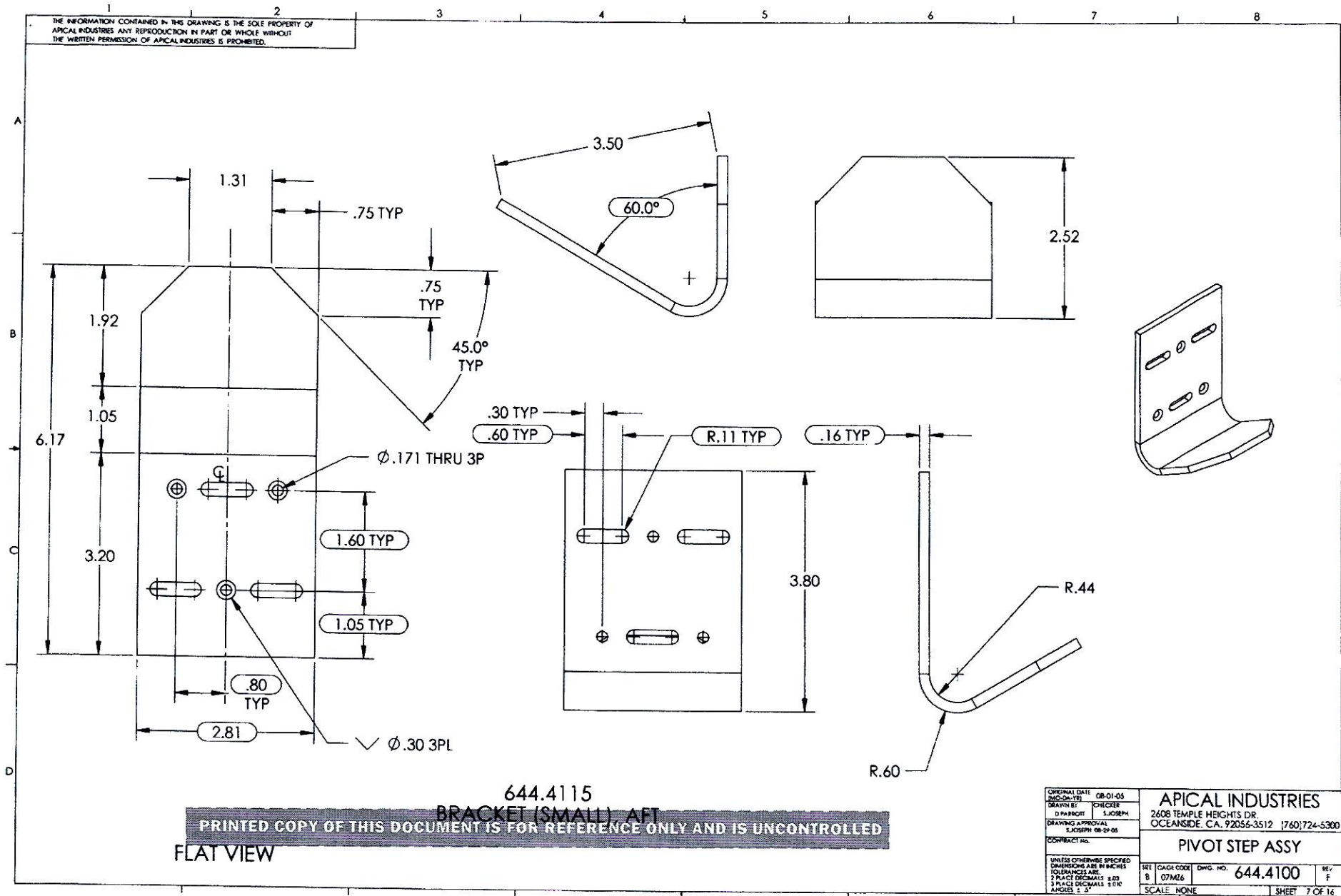
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644.4114
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ORIGINAL DATE 08-01-05	APICAL INDUSTRIES		
DRAWN BY D. PARROTT	2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300		
CHECKED BY J. JOSEPH	PIVOT STEP ASSY		
DRAWING APPROVAL J. JOSEPH 08-29-05			
CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 3 PLACE DECIMALS $\pm .01$ 2 PLACE DECIMALS $\pm .005$ ANGLES $\pm .5^\circ$	SIZE B	CAGE CODE 07M26	DWG. NO. 644.4100
	SCALE NONE		SHEET 4 OF 16

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644.4116
BRACKET (SMALL) FWD

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ORIGINAL DATE 08-01-05
DRAWN BY J. PARROT CHECKED S. JOSEPH
DRAWING APPROVAL S. JOSEPH 08-29-05
CONTRACT NO.
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
2 PLACE DECIMALS ± .03
3 PLACE DECIMALS ± .010
ANGLES ± 3°
SER CAGE CODE DWG. NO. 644.4100
B 07MIG SCALE NONE SHEET 8 OF 8

APICAL INDUSTRIES
2608 TEMPLE HEIGHTS DR.
OCEANSIDE, CA. 92056-3512 (760)724-5312
PIVOT STEP ASSY

BRACKET (SMALL), FWD

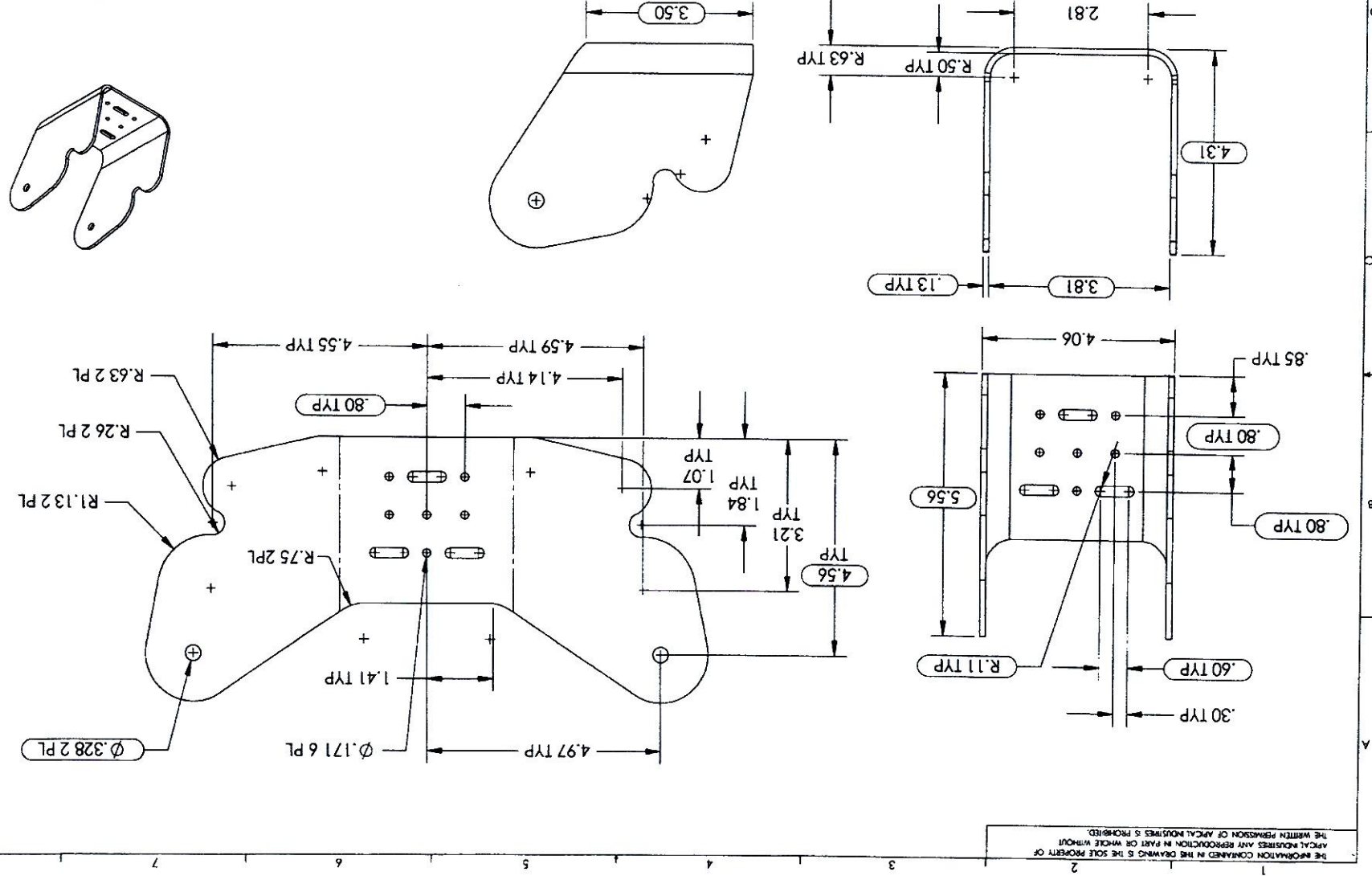
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ORIGINAL DATE (M-D-Y)	08-01-05	APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300 PVOT STEP ASSY
QWNTY	1000	
D/PART#	J.SJOEPH	
DRAWING APPROVAL	J.SJOEPH 08-29-05	
CONTRACT NO.		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DECIMALS ARE: 1/16" 1/32" 1/64" 2 PLACES DECIMALS = .03 3 PLACES DECIMALS = .010 4 PLACES DECIMALS = .005		
SEE	CAGE CODE	DWG. NO.
	07M126	644.4100
SCALE NONE		SHEET 8 OF 16

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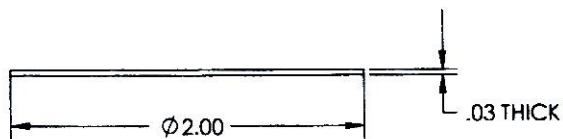
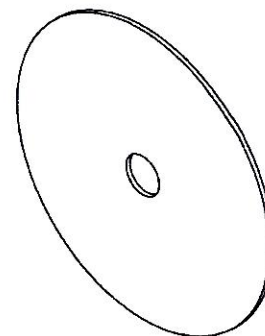
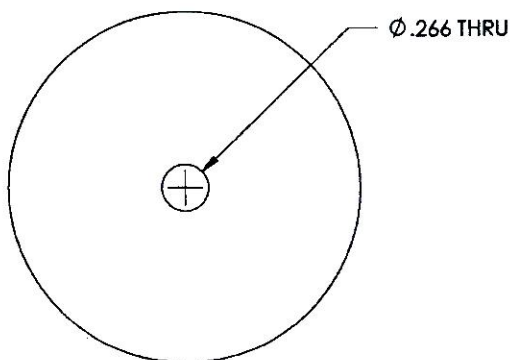
BRACKET, FWD PIVOT

APICAL INDUSTRIES		OCEANIDE, CA. 92056-3512 (760)724-3300	
DRAWN BY: J. BROWN		CHECKED BY: J. BROWN	
DATE: 08-01-03		REVISION: 1.0	
CONTRACT NO.		PROJECT NO.	
DIVISION: 100		SCALE: NONE	
SHEET: 9 OF 16		REV: 644.4100	



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644.4118
WASHER, NYLON

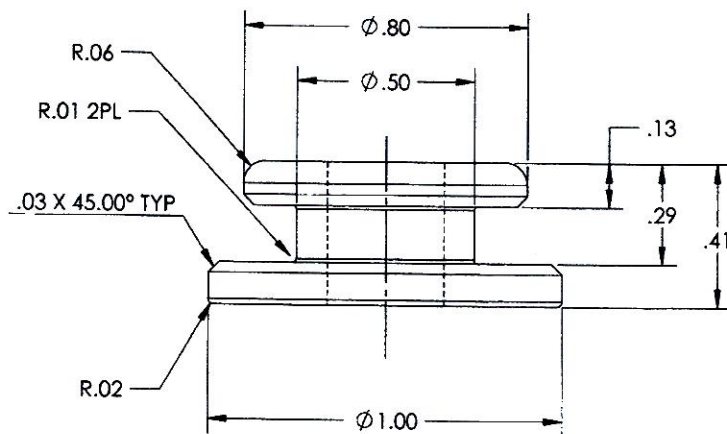
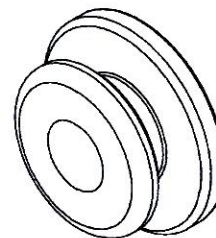
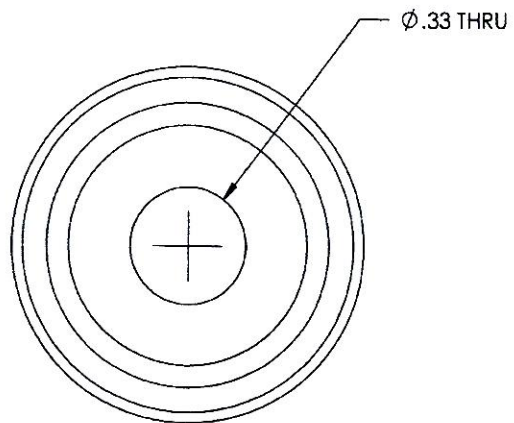
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ORIGINAL DATE 05-01-05
DRAWN BY J. JOSEPH
CHECKED J. JOSEPH
DRAWING APPROVAL J. JOSEPH 05-29-05
CONTRACT NO.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
2 PLACE DECIMALS ±.02
3 PLACE DECIMALS ±.010
ANGLES ±.5°

APICAL INDUSTRIES
2608 TEMPLE HEIGHTS DR.
OCEANSIDE, CA. 92056-3512 (760)724-5300
PIVOT STEP ASSY
SHEET 10 OF 16
SCALE NONE
DWG. NO. 644.4100
REV. F

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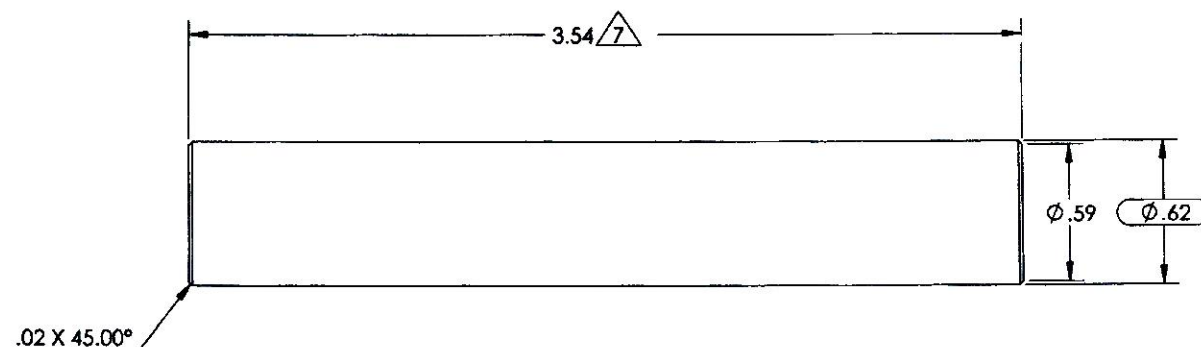
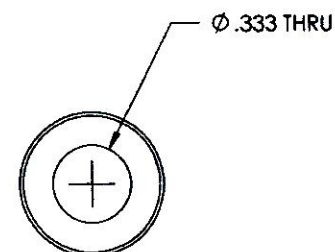
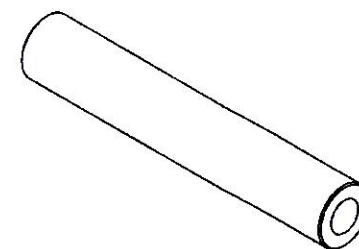


644.4112
SPACER, FWD STOP

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ORIGINAL DATE 08-01-05		APICAL INDUSTRIES	
DRAWN BY CHECKER		2608 TEMPLE HEIGHTS DR.	
DRAWN BY J. JOSEPH		OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL		PIVOT STEP ASSY	
S. KOSIOWSKI 08-29-05			
CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACES DECIMALS ±.03 3 PLACES DECIMALS ±.010 ANGLES ±.5°			
SHEET	CAGE CODE	DWG NO	REV.
B	07M26	644.4100	F
SCALE NONE		SHEET 1 OF 16	

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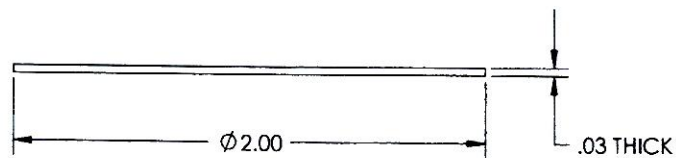
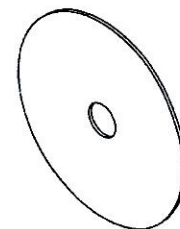
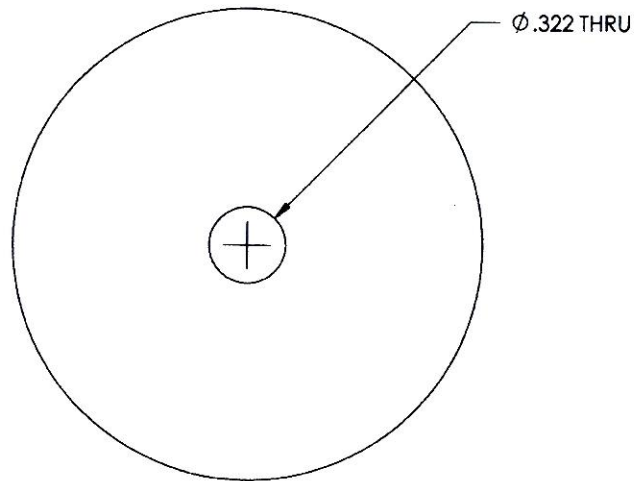


644.4120
SPACER, CROSS-TUBE

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ORIGINAL DATE 11-01-05	APICAL INDUSTRIES	
DRAWN BY D. PARSONS	2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760) 724-5300	
DESIGNED BY L. JOSEPH	PIVOT STEP ASSY	
CONTRACT NO.	SHEET (CAGE CODE)	DWG. NO.
	B 07M26	644.4100
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 ANGLES ± .5°	SCALE: NONE	SHEET 12 OF 16

1 2 3 4 5 6 7 8
A
B
C
D
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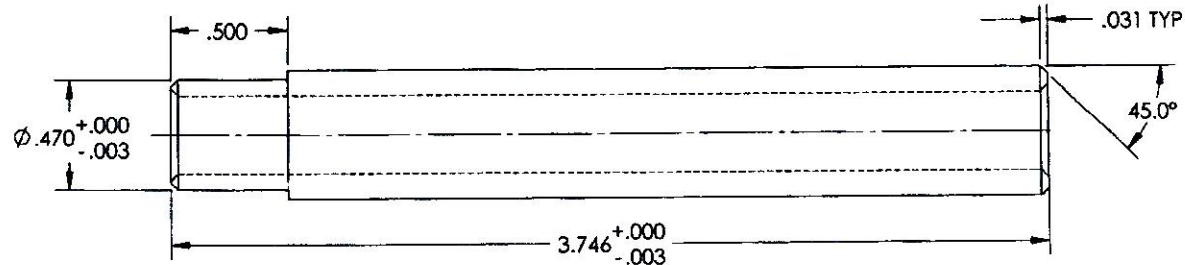
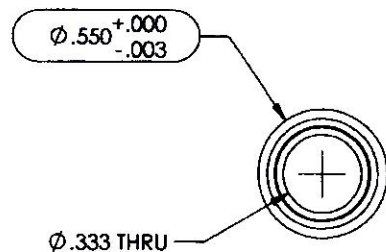
644.4121

WASHER, NYLON

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ORIGINAL DATE	08-01-05	APICAL INDUSTRIES	
DRAWN BY	CHICLER	2608 TEMPLE HEIGHTS DR.	
DRAWING APPROVAL	S. JOSEPH	OCEANSIDE, CA 92056-3512 (760)724-5300	
CONTRACT NO.		PIVOT STEP ASSY	
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ± .05 3 PLACE DECIMALS ± .010 ANGLES ± .5°		SHEET	REV.
		B	F
SCALE NONE		644.4100	
		SHEET 13 OF 16	

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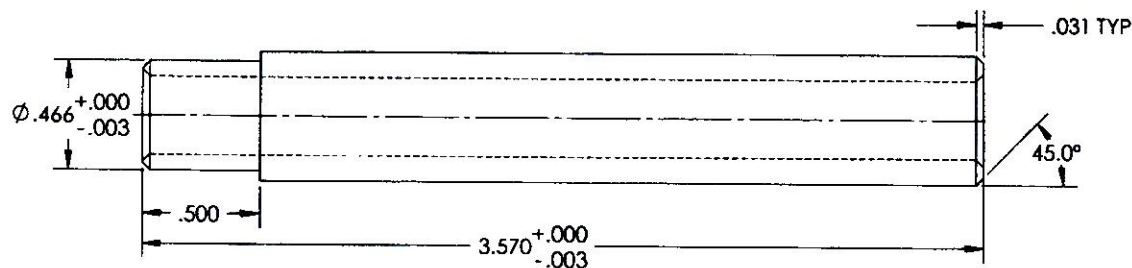
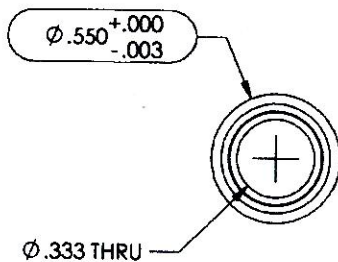


644.4122

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ORIGINAL DATE: 08-01-05		APICAL INDUSTRIES	
EVALUATION: 08-01-05		2608 TEMPLE HEIGHTS DR.	
DRAWN BY: J. JOSEPH		OCEANSIDE, CA 92056-3512 (760) 724-5300	
CHECKED BY: J. JOSEPH		PIVOT STEP ASSY	
DRAWING APPROVAL: J. JOSEPH 08-29-05		UNLESS OTHERWISE SPECIFIED	
COMMENTS: 16		DIMENSIONS ARE IN INCHES	
		TOLERANCES ARE:	
		3 PLACE DECIMALS ±.010	
		ANGLES ±.5°	
		SCALE: NONE	
		SHEET 14 OF 16	

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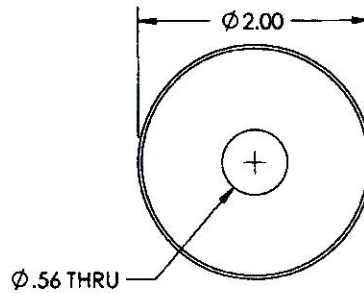
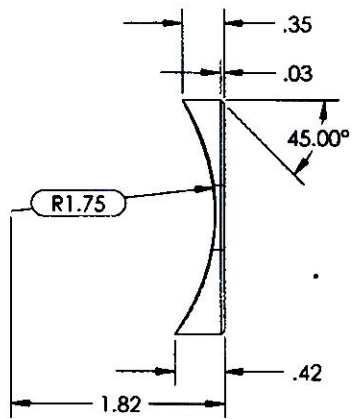


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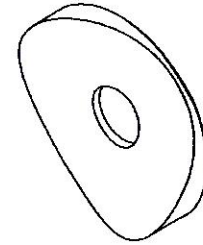
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ORIGINAL DATE: 08-01-05		APICAL INDUSTRIES	
DRAWN BY: J. JOSEPH		2608 TEMPLE HEIGHTS DR.	
DRAWING APPROVAL: J. JOSEPH 08-29-05		OCEANSIDE, CA. 92056-3512 (760)724-5300	
CONTRACT NO.		PIVOT STEP ASSY	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.02 3 PLACE DECIMALS ±.010 ANGLES ±.5°		SER: B	CAGE CODE: 07M26
		DWG. NO: 644.4100	REV: F
		SCALE: NONE	SHEET 15 OF 16

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ORIGINAL DATE 08-01-05		APICAL INDUSTRIES	
DRAWN BY K. CHURCH		2608 TEMPLE HEIGHTS DR.	
CHECKED BY J. JORDAN		OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL 08-29-05		PIVOT STEP ASSY	
CONTRACT NO.		REV.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 ANGLES ± .5°		SERIAL CODE B 07M26	DWG. NO. 644.4100
SCALE: NONE		SHEET 14 OF 14	



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO34886

Purchase Order Date 1/9/2017

PO Print Date 1/11/2017

Page Number 2 of 5

Order From :

A.T.G. INDUSTRIES INC.
731 INDUSTRIELLE ROAD
ROCKLAND, ON K4K 1T2
CANADA

VC-ATG001

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 613-446-4544

Ship To Contact

Ship To Phone

Ship Via: VENDOR'S TRUCK

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

Line Total: \$34.65

4 154283 644.4114 WASHER 1/17/2017 7.00 \$4.50 \$31.50
PIVOT REV. F
Yes
1/17/2017
FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE 3 CLASS 2, COLOR BLACK

Line Total: \$31.50

5 154285 644.4124 WASHER 1/17/2017 7.00 \$4.50 \$31.50
PIVOT REV. F
Yes
1/17/2017
FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE 3 CLASS 2, COLOR BLACK

Line Total: \$31.50

6 154804 646.9713 BODY REV. D 1/25/2017 6.00 \$14.50 \$87.00
Yes
1/25/2017
FINISH: HARD BLACK ANODIZE AS PER IAW MIL-A-8625 TYPE III, CLASS 2 / PRIME AS PER IAW MIL-PRF-23377J TYPE I CLASS N

PO Instructions: PRIMER IS SUPPLIED BY DART

Note:

1/11/2017



A.T.G. INDUSTRIES INC.
731 INDUSTRIELLE STREET
ROCKLAND, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 912816

Date: 17-Jan-17

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

CHANTAL LAVOIE
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms		Ship Via	
Quantity	Description		
	PLEASE REFERENCE THE PACK LIST NUMBER ON ALL CORRESPONDENCE TO THIS SHIPMENT. IF YOU HAVE ANY QUESTIONS, PLEASE CALL AT (613) 446-4544.		
12 ea	Part: D4726-1 Handle Job: 20566	PO: 34886	Rev: A Line: 1
18 ea	Part: D4703-043 Lock pin Job: 20567	PO: 34886	Rev: A Line: 2
7 ea	Part: 644.4114 Washer Pivot Job: 20569	PO: 34886	Rev: F Line: 4
DAS 38 9-89 7 ea	Part: 644.41245 Washer Job: 20570	PO: 34886	Rev: F Line: 5
DATE: <u>17/01/2017</u>			
CERTIFIED SIGNATURE: <u>[Signature]</u>			
RECEIVER SIGNATURE: _____			
Note: This Packing Slip may contain parts that have been PLATED. Items that are plated may be subject to natural tarnishing and it is suggested that they be inspected within 24 hours of receipt.			
CERTIFICATE OF CONFORMANCE			
A.T.G. INDUSTRIES INC. CERTIFIES THAT ALL ITEMS IN THIS SHIPMENT CONFORM TO REQUIREMENTS.			
MADE IN CANADA.			

SP17-01-17